

**DEPARTMENT OF TRANSPORTATION**

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch  
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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.28**WELDING INSPECTION REPORT****Resident Engineer:**Siegenthaler, Peter**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** WIR-021903**Date Inspected:** 19-Mar-2011**Project Name:** SAS Superstructure**OSM Arrival Time:** 1500**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 300**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai, China**CWI Name:** Mr. Li Yan Hua**CWI Present:** Yes No**Inspected CWI report:** Yes No N/A**Rod Oven in Use:** Yes No N/A**Electrode to specification:** Yes No N/A**Weld Procedures Followed:** Yes No N/A**Qualified Welders:** Yes No N/A**Verified Joint Fit-up:** Yes No N/A**Approved Drawings:** Yes No N/A**Approved WPS:** Yes No N/A**Delayed / Cancelled:** Yes No N/A**Bridge No:** 34-0006**Component:** OBG**Summary of Items Observed:**

On this date Caltrans OSM Quality Assurance (QA) Inspector,Baskar Govindarajan, was present during the times noted above for observations relative to the work being performed.

Bay #19

This QA Inspector observed the following work in progress,

Flux Cored Arc Welding (FCAW)

Repair of Weld joint- X6550B as per CWR no. B-CWR-2835, Located on Cable bracket SA6530. Welder is identified as 062806. ZPMC Quality Control Inspector (QC) is identified as Gao Xing Hui. The welding variables recorded by QC appeared to comply with the WPS-345-FCAW-1G (1F) –Esab-Repair-FCM..

Repair of Weld joint- X6043A as per CWR no. B-CWR-2835, Located on Cable bracket SA6031. Welder is identified as 062749. ZPMC Quality Control Inspector (QC) is identified as Gao Xing Hui. The welding variables recorded by QC appeared to comply with the WPS-345-FCAW-1G (1F) –Esab-Repair-FCM.

Repair of Weld joint- X6549A as per CWR no. B-CWR-2835, Located on Cable bracket SA6529. Welder is identified as 062783. ZPMC Quality Control Inspector (QC) is identified as Gao Xing Hui. The welding variables recorded by QC appeared to comply with the WPS-345-FCAW-1G (1F) –Esab-Repair-FCM.

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## WELDING INSPECTION REPORT

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### Shielded Metal Arc Welding (SMAW)

Weld joint- 014, Located on Suspender Bracket SB26-001-106W. Welder is identified as 259566. ZPMC Quality Control Inspector (QC) is identified as Li Ping. The welding variables recorded by QC appeared to comply with the WPS-B-P-2211-U2-U4B.

Weld joint- 022, Located on Suspender Bracket SB27-001-110E. Welder is identified as 259906. ZPMC Quality Control Inspector (QC) is identified as Li Ping. The welding variables recorded by QC appeared to comply with the WPS-B-P-2212-U2-U4B.

### Bay #16

This QA Inspector observed the following work in progress

### Flux Cored Arc Welding (FCAW)

Weld joint- 106 Located on Crash Barrier W2-SB18-001. Welder is identified as 048625. ZPMC Quality Control Inspector (QC) is identified as Liu tao. The welding variables recorded by QC appeared to comply with the WPS-B-T-2132-ESAB.

Weld joint- 013, Located on Crash Barrier E3-SB25B-001. Welder is identified as 206296. ZPMC Quality Control Inspector (QC) is identified as Liu Tao. The welding variables recorded by QC appeared to comply with the WPS-B-T-2132-ESAB.

Weld joint- 091 Located on Crash Barrier W5-SB31-001. Welder is identified as 062092. ZPMC Quality Control Inspector (QC) is identified as Liu Tao. The welding variables recorded by QC appeared to comply with the WPS-B-T-2132-ESAB.

Weld joint- 126 Located on Crash Barrier W5-SB30B-001. Welder is identified as 201074. ZPMC Quality Control Inspector (QC) is identified as Liu Tao. The welding variables recorded by QC appeared to comply with the WPS-B-T-2133-ESAB.

### Shielded Metal Arc Welding (SMAW)

Weld joint- 064, Located on Crash Barrier W5-SB30-001. Welder is identified as 201905. ZPMC Quality Control Inspector (QC) is identified as Liu Tao. The welding variables recorded by QC appeared to comply with the WPS-B-P-2113.

Weld joint- 074, Located on Crash Barrier E2-SB30C-001. Welder is identified as 053753. ZPMC Quality Control Inspector (QC) is identified as Liu Tao. The welding variables recorded by QC appeared to comply with the WPS-B-P-2113.

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## WELDING INSPECTION REPORT

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For further information see below pictures:-

Unless otherwise noted, all work observed on this date appeared to be in general compliance with the applicable contract documents.



### Summary of Conversations:

No relevant Conversations.

### Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Thomas Hu (15002048250), who represents the Office of Structural Materials for your project.

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<b>Inspected By:</b>	Baskar, Govindarajan
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Quality Assurance Inspector
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<b>Reviewed By:</b>	Clifford, William
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QA Reviewer
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